

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL
VOL I: FIELD OPERATIONS

Manual No.: 5-21000-OPS-FO
New Manual No.: 4-11000-ER-OPS-FO
Procedure No.: Table of Contents, Rev 69
Page: 1 of 3
Effective Date: 07/15/94
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)

**EG&G
SUPERSEDED
DOCUMENT**

TABLE OF CONTENTS
FOR VOLUME I: FIELD OPERATIONS

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.01	Air Monitoring and Dust Control	2	05/12/92
FO.03	General Equipment Decontamination	2	05/12/92
94-DMR-001021	Section FO.03 Text Addition	2	05/26/94
94-DMR-001010	LIMITED SCOPE		
	Section FO.03 Text Modification	2	06/01/94
•94-DMR-001224	Equipment Decontamination Location Adjustment	2	07/15/94
FO.04	Heavy Equipment Decontamination	2	05/12/92
94-DMR-001009	LIMITED SCOPE		
	Section FO.04 Text Modification	2	06/01/94
FO.05	Handling of Purge and Development Water	2	05/12/92
94-DMR-000278	Groundwater Monitoring Modifications	2	02/25/94
FO.06	Handling of Personal Protective Equipment	2	05/12/92
FO.07	Handling of Decontamination Water and Wash Water	2	05/12/92
94-DMR-001175	LIMITED SCOPE - Decontamination Water Disposal Location Changes	2	06/20/94

ADMINISTRATIVE

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

A-SW-001296

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL
VOL I: FIELD OPERATIONS

Manual No.: 5-21000-OPS-FO
New Manual No.: 4-11000-ER-OPS-FO
Procedure No.: Table of Contents, Rev 69
Page: 2 of 3
Effective Date: 07/15/94
Organization: Environmental Management

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.08	Handling of Drilling Fluids and Cuttings	2	05/12/92
DCN 93.01	Better Consistency of Drum Handling	2	06/29/93
FO.09	Handling of Residual Samples	2	05/12/92
FO.10	Receiving, Labeling, and Handling Environmental Materials Containers	2	05/12/92
DCN 93.04	Sample to Drum Traceability	2	06/23/93
DCN 93.05	Drum Labeling Change	2	06/29/93
DCN 93.06	Drum Sample Numbers	2	06/29/93
DCN 93.07	SVE Sampling Overlap	2	08/18/93
93-DMR-000677	DMR	2	11/01/93
94-DMR-000244	Drying Agent Modification	2	03/14/94
94-DMR-000558	Form Modification	2	04/15/94
FO.11	Field Communications	2	05/12/92
FO.12	Decontamination Facility Operations	2	05/12/92
FO.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	2	05/12/92
93-DMR-000530	Section FO.13 Modification	2	11/04/93
93-DMR-000667	Section FO.13 Modification	2	11/20/93
94-DMR-000143	Composite Sampling Clarification	2	02/11/94
FO.14	Field Data Management	2	05/12/92
DCN 93.05	Replacement of Form 14 C	2	10/06/93
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	2	05/12/92
FO.16	Field Radiological Measurements	2	05/12/92
DCN 93.02	LUDLUM/FIDLER Guidance	2	06/29/93
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL
VOL I: FIELD OPERATIONS

Manual No.: 5-21000-OPS-FO
New Manual No.: 4-11000-ER-OPS-FO
Procedure No.: Table of Contents, Rev 69
Page: 3 of 3
Effective Date: 07/15/94
Organization: Environmental Management

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.18	Environmental Sample Radioactivity Content Screening	1	05/12/92
FO.19	Base Laboratory Work	2	05/12/92
FO. 23	Management of Soil and Sediment Investigative Derived Materials (IDM)	0	01/11/94
94-DMR-000137	Training Requirements Clarification	0	01/28/94
94-DMR-000148	Section FO.23 Modifications	0	02/09/94
94-DMR-001108	Buried Instrumentation and Existing Soil	0	06/14/94
FO.25	4-B11-ER-OPS-FO.25 Shipment of Radioactive Materials Samples	0	12/01/93
FO.27	4-BO1-ER-OPS-FO.27 Collection of Floor/Equipment Hot Water Rinsate Samples	0	07/26/93
DCN 93.01	VOC Preservatives	0	08/11/93
DCN 93.02	Fresh Water Samples	0	08/30/93
FO.29	4-H46-ENV-OPS-FO.29 Disposition of Soil and Sediment Investigation-Derived Materials	0	06/24/94
•94-DMR-001226	Allowance of Procedural Use for Waste Piles	0	07/15/94
FO.32	4-I50-ENV-OPS-FO.32 Treated Effluent Discharge Operable Unit 1, Building 891	0	04/13/94

DOCUMENT MODIFICATION REQUEST (DMR)

Page 1 of 1

Refer to 1-A01-PPG-001 for Processing Instructions.
Print or Type All Information (Except Signatures)

2. Existing Document Number/Revision 4-H46-ENV-OPS-FO.29/Rev.0			1. Date 6/22/94		25. DMR. No. 94-DMR-001226	
4. Originator's Name/Phone/Page/Location Steven Needler/6961/7579/080			3. New Document Number or Document Number if it is to be changed with this Revision N/A			
6. Document Type <input checked="" type="checkbox"/> Procedure <input type="checkbox"/> Other			5. Document Title Disposition of Soil and Sediment Investigation-Derived Materials			
7. Document Modification Type (Check only one) <input type="checkbox"/> New <input type="checkbox"/> Revision <input checked="" type="checkbox"/> Intent Change <input type="checkbox"/> Nonintent Change <input type="checkbox"/> Editorial Correction <input type="checkbox"/> Cancellation						
8. Item	9. Page	10. Step	11. Proposed Modifications			
1.	5	1. Purpose	Change Sentence 3 from "This procedure, although specific for drums, may be extended to other containers such as crates or half crates." to "This procedure, although specific for drums, may be extended to other containers such as crates or half crates, and to uncontained waste piles."			
2.	37	7.12[2][B]	Before this entry, add "[B] If waste is not contained, place it in containers in accordance with SOP FO.8, Handling of Drilling Fluids and Cuttings and SOP FO.10, Receiving, Labelling, and Handling Environmental Material Containers."			
3.	37	7.12[2][B]	Change "[B]" to "[C]".			
4.	37	7.12[2][C]	Change "[C]" to "[D]".			
5.	37	7.12[2][D]	Change "[D]" to "[E]".			
6.	37	7.12[3][A]	Before this entry, add "[A] If waste is not contained, place it in containers in accordance with SOP FO.8, Handling of Drilling Fluids and Cuttings and SOP FO.10, Receiving, Labelling, and Handling Environmental Material Containers."			
7.	37	7.12[3][A]	Change "[A]" to "[B]".			
8.	37	7.12[3][B]	Change "[B]" to "[C]".			
12. Justification (Reason for Modification, EJO#, TP#, etc.) The proposed modification will permit this procedure to be used for waste piles.						
If modification is for a new procedure or a revision, list concurring disciplines in Block 13, and enter N/A in Blocks 14 and 15. If modification is for any type of change or a cancellation, organizations are listed in Block 13, then Concuror prints, and signs in Block 14, and dates in Block 15.						
13. Organization		14. Print and Sign (if applicable)			15. Date (if applicable)	
EOM		M.C. Broussard <i>M.C. Broussard</i>			6/27/94	
DM		<i>[Signature]</i>			6/30/94	
EQS		<i>[Signature]</i>			6-30-94	
PA		<i>[Signature]</i> for W.S. Glover			7-8-94	
OU 1, 3, 11, 15/16		<i>[Signature]</i>			6/30/94	
SPP		<i>[Signature]</i>			6/30/94	
IA OU/D&D		<i>[Signature]</i> for SOP			6/30/94	
OU 5, 6, 7		<i>[Signature]</i>			6/30/94	
OU 2		<i>[Signature]</i>			6-30-94	
16. Originator's Supervisor (print/sign/date) Zela Houk <i>Michael A. Houk</i> 23 JUN 94						
17. Assigned SME/Phone/Page/Location Steven Needler/6961/7579/080			18. Cost Center 0249		19. Charge Number 989427	
20. Requested Completion Date 7/15/94			21. Effective Date 7/15/94			
22. Accelerated Review? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		23. ORC Review N/A This non-intent change was processed as an intent change to expedite the SMP process.				
24. Responsible Manager (print, sign, date) Laurie Gregory-Frost <i>L.A. Gregory-Frost</i> 6-23-94						

REVIEWED FOR CLASSIFICATION/UCNI
BY NA
DATE NA

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

94-Dm2-
001741

1.

PURPOSE

This procedure is a procedure for classifying the soil and sediment investigation-derived material (IDM) generated from environmental investigations. Specifically, this procedure is used to determine a risk-based disposition of soil and sediment drums being managed in accordance with 4-F99-ENV-OPS-FO.23, Management of Soil and Sediment Investigation-derived Materials. This procedure, although specific for drums, may be extended to other containers such as crates or half crates, and to uncontained waste piles.

94-Dm2-
001226

2.

SCOPE

This procedure applies to all EG&G Rocky Flats, Inc. (EG&G) Environmental Restoration Program Division (ERPD) employees and subcontractors involved in the disposition of soil and sediment IDM. A flow chart outlining the processes described in this procedure is shown in Appendix 1, IDM Evaluation Flow Chart.

This procedure addresses the following topics:

- Review of Form FO.23A
- Review of process knowledge and analytical results [in accordance with Appendix 2, Toxicity Characteristic Leaching Procedure (TCLP) Determination and Form FO.29D, Adequacy Determination (Form FO.29D)]
- Adequacy Determination Form (in accordance with Form FO.29D, Adequacy Determination Form in Appendix 2)
- Data management
- Comparison of reported detection limits (DL)
- Calculating average concentrations
- Background comparison of metals
- TCLP comparison
- IDM RCRA Constituents of Concern (in accordance with Appendix 3, IDM RCRA Constituents of Concern)
- Performing RCRA risk analysis
- Performing inclusive risk analysis
- Managing IDM

94-Dm2-001741

7.11 Managing IDM (continued)

ERPD PM (continued)

- [A] Assign a waste code in accordance with the Hazardous Waste Requirements Manual (Manual 1-10000-HWR), Section 3.0, Waste Identification and Analysis.
- [B] If waste is not contained, place it in containers in accordance with SOP FO.8, Handling of Drilling Fluids and Cuttings, and SOP FO.10, Receiving, Labelling, and Handling Environmental Material Containers.
- [C] Complete labels for drums in accordance with the Waste Requirements Manual (Manual 1-1000-WRM) Procedure for Non-radioactive Waste Packaging (WP-1027).
- [D] Complete travelers for drums in accordance with the Waste Requirements Procedures Manual (Manual 5-2300-WRP) Procedure on Waste/Residue Traveler Instructions (WO-1102).

ERPD EOM

- [E] Transfer the drums containing RCRA waste to Waste Operations for proper storage in permitted or interim-status facilities in accordance with 4-F99-ENV-OPS-FO.23.

ERPD PM

- [3] IF the *TOTAL* (or *GRAND TOTAL*) blocks on Form FO.29E, in either Columns 8 or 9, are greater than 1,
THEN:

- [A] If waste is not contained, place it in containers in accordance with SOP FO.8, Handling of Drilling Fluids and Cuttings, and SOP FO.10, Receiving, Labelling, and Handling Environmental Material Containers.
- [B] Complete a label for the drum, identifying the IDM as containing CERCLA hazardous substances with risks greater than 1×10^{-6} with the disposition pending the ROD.

ERPD EOM

- [C] Transfer the drums containing waste out of the 90-day storage area to an area to be determined for interim storage as non-RCRA waste.

The disposition of the non-RCRA IDM in interim storage will be determined by parties to the Interagency Agreement (IAG) and the public as part of the ROD for the area in which the IDM were generated.